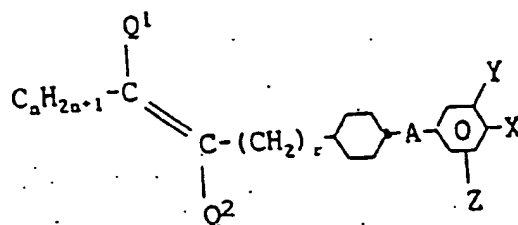


Phenylcyclohexanes

and a liquid-crystalline medium

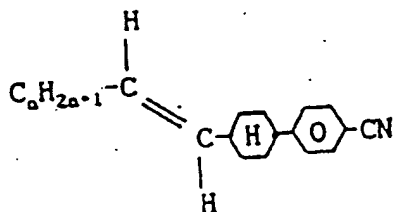
The invention relates to novel phenylcyclohexanes

of the formula I



5 in which n is 0 to 7, Q¹ and Q² are H, or one of these radicals is alternatively CH₃, r is 0, 1, 2, 3, 4 or 5, A is trans-1,4-cyclohexylene, 1,4-phenylene, 3-fluoro-1,4-phenylene or a single bond, X is F, Cl, -CF₃, -CN, -OCF₃, or -OCHF₂, and Y and Z are each, independently of one
10 another, H or F, with the proviso that, in the case where A is a single bond, Q¹ = Q² = H and simultaneously X = CN, Y and/or Z are F.

EP-A 0 122 389 discloses similar compounds, for example of the formula A



A

However, these compounds do not satisfy all the demands, in particular with respect to (long-term) stability, for example for use in displays having an active matrix.

German Offenlegungsschrift 29 07 332 discloses
20 similar compounds of the formula



These nematogenic compounds are preeminently suitable for improving the low-temperature behavior of nematic